

## GILA RIVER BASIN

09498600 CHRISTOPHER CREEK TRIBUTARY NEAR KOHL'S RANCH, AZ

LOCATION.--Lat 34°19'20", long 111°04'00", in NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.22, T.11 N., R.12 E., Gila County, Hydrologic Unit 15060105, at State Highway 160, 1.8 mi east of Kohl's Ranch, and 15.5 mi northeast of Payson.

DRAINAGE AREA.--0.66 mi<sup>2</sup>.

### Annual peak discharges

Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes	Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes
1966	12-22-65	54		1972	08-06-72	35	
1967	00-00-67	17		1973	10-19-72	75	
1968	08-10-68	26		1974	08-05-74	22	
1969	01-26-69	14		1975	07-00-75	16	
1970	09-05-70	265		1976	02-09-76	44	
1971	08-00-71	8					

Magnitude and probability of instantaneous peak flow based on period of record 1966-76

Discharge, in ft <sup>3</sup> /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2	5	10	25	50†	100†
50%	20%	10%	4%	2%	1%
30.2	69.5	110	182	256	348
Weighted skew	(logs) =	0.24			
Mean	(logs) =	1.50			
Standard dev.	(logs) =	0.42			

† Reliability of values in column is uncertain, and potential errors are large.

### Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
510	1.7	6,080	73.0	3.0	29.0	3.5	6.0

